



Extension guide fitting for drawers

## BACKGROUND OF THE INVENTION

The invention relates to an extension guide fitting for drawers comprising an extension  
5 rail at the drawer side, a carrier rail at the furniture body side, and a middle rail which runs  
between those two rails at both sides of the drawer. ~~The, wherein the~~ load between the rails is  
transmitted by ~~means of~~ running rollers which are mounted in separate carriages. Mounted;  
~~wherein mounted~~ in the front region of the carrier rail is a stationary support roller on which the  
extension rail runs with a running limb and is supported at least in the closed condition of the  
10 drawer.

In the case of guide arrangements with running rollers which are mounted in their own  
carriages, the load-transmitting running elements, (namely, the carriages with the rolling bodies),  
are disposed rather in the center ~~centre~~ of the guide system. In this connection, the term running  
rollers is used to denote rolling bodies quite generally, that is to say disc-shaped runner wheels,  
15 balls and rollers.

In the case of extension guide fittings with riveted running rollers, the load-transmitting  
elements are at the largest possible spacing from each other in the closed condition.

Therefore, extension guide fittings with running rollers which are mounted in carriages  
are more unstable in the closed condition than comparable extension guide fittings with riveted  
20 running rollers. That applies in particular in relation to full extension arrangements because they  
have one rail or running system more than partial extension arrangements.

The instability of the extension guide fitting makes itself felt adversely in the closed  
condition of the drawer in relation to the fronts of articles of furniture for several reasons. Firstly,  
~~because the joints joins~~ between fronts which are disposed in mutually superposed relationship  
25 are of different sizes, depending on the respective loading in the drawer or depending on  
respective production tolerances. Secondly, ~~because the~~ fronts do not impinge against the front  
edge of the body of the article of furniture in parallel relationship, but come to bear against the  
front edge of the body of the article of furniture upwardly or downwardly, depending on the  
respective loading on the drawer or depending on respective production tolerances. It has  
30 therefore been proposed that, in the case of a full extension arrangement, a so-called run-on  
portion can be mounted on the drawer rail, the run-on portion running on to the carrier rail at the



FIG. 5 shows the same view as in FIG. 4 when the drawer is fully extended,  
FIG. 6 shows an end view of the extension guide fitting according to the invention for the drawer, and  
FIGS. 7 to 9 show side views of the support rollers and the mounting thereof.

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#### DETAILED DESCRIPTION OF THE INVENTION

The extension guide fitting 1 according to the invention has a carrier rail 2 which is secured to a side wall of an article of furniture, an extension rail 4 which is secured to the drawer 10 and a middle rail 3 which runs between the two rails 2, 4.

10 Provided between the carrier rail 2 and the middle rail 3 is a carriage 5 carrying running rollers.

—At least one carriage 5 with running rollers is also disposed between the middle rail 3 and the extension rail 4.

15 As, in the closed condition of the drawer 10, the carriages 5 are located substantially disposed rather in the middle of the guide system, instability of the drawer 10 could not be avoided in the case of a conventional extension guide fitting.

In accordance with the invention, provided in the front region of the carrier rail 2 are at least two support rollers 8, on at which the extension rail 4 runs via with a running limb 11. The support rollers 8 are arranged one behind the other in the direction of displacement of the drawer 20 10. The extension rail 4 has is of an inverted U-shaped profile, with a central limb 4' and two side limbs 4", and the running limb 11 is angled (extends) directly from a side limb 4" towards the interior of the rail profile.

In the illustrated embodiment, the extension rail 4 is arranged directly beneath the drawer bottom 6.

25 In the embodiment shown in FIGS. 4 and 5, each the support roller 8 is mounted in a block 12 which is fitted displaceably on the carrier rail 2. In that way, it is possible to adjust both the spacing of the running roller 8 from the front edge 13 of the carrier rail 2 and also the height of the support roller 8. The block 12 is formed by two plates 13.

30 In the embodiment shown in FIGS. 7 and 8, two support rollers 8 are mounted on a rocker member 14 (i.e., a tiltable or pivotable member). In the embodiment of FIG. 7, a third support roller 8 is mounted on the shaft of the rocker member 14.

## ABSTRACT

5 An extension guide fitting for drawers includes comprising an extension rail (4) at the drawer side, a carrier rail (2) at the furniture body side, and a middle rail (3) which runs between the extension and carrier ~~these two rails (2, 4)~~ at both sides of the drawer. The load between the rails (2, 3, 4) is transmitted by ~~means of~~ running rollers which are mounted in separate carriages (5). Mounted in the front region of the carrier rail (2) are at least two stationary support rollers on (8) at which the extension rail (4) runs via with a running limb so as to support the extended rail ~~and is supported~~ at least in the closed condition of the drawer.